

# SimpliFiber® Pro

## *Optical Power Meter and Fiber Test Kits*

### **SimpliFiber Pro makes testing simple**

Fluke Networks' SimpliFiber® Pro Optical Power Meter incorporates new and innovative features to give technicians a tool that performs and reports test results like no other first-line fiber test tool can.

The only way to accurately test and verify the performance of your fiber-optic network is with test equipment designed for the job. The SimpliFiber® Pro Optical Power Meter and Fiber Test Kits is a suite of affordable and easy-to-use fiber verification test solutions. Today's high bandwidth premise networks heavily rely on fiber-optic infrastructure. Proper installation and maintenance of fiber cabling is imperative to improve technician productivity and ensure cabling system performance.

### **See how Fluke Networks' suite of innovative installation and test solutions improves technician productivity and ensures cabling system performance.**

SimpliFiber Pro is an improved fiber test set that simplifies and shortens the front-line testing process by:

- reducing the multiple steps and using a simultaneous dual-wavelength testing feature to measure the range of power levels in just half the time
- allowing for a non-touch solution to check for a live fiber without having to plug into ports
- enabling a network technician to do time-consuming procedures that normally require a team

SimpliFiber® Pro Optical Power Meter and Fiber Test Kits provide you with all the tools you need to help you verify proper installation and maintain fiber-optic cabling systems. Available in kits or a la carte, these tools are simple and effective and provide you with the capability to measure loss and power levels, locate faults and polarity issues, and inspect connector end-faces.



### **A system approach**

SimpliFiber Pro is a product suite that allows you to match products and functionality to your needs. SimpliFiber Pro is made up of four unique fiber platforms: the power meter, the multimode source, the singlemode source, and the FindFiber™ Remote ID source. Each platform has uniquely competitive features, bundled in convenient kits, to meet the needs of today's technicians.

The optical power meter is included in all kits and is calibrated for accuracy at six different wavelengths (850, 1300, 1310, 1490, 1550, 1625). The meter features the ability to save a reference power level, allowing a direct display of fiber loss. It also has an intuitive four-button panel, a large LCD display screen, and a serial port. The meter's single connector permits simple network connection and straightforward reference power measurement. Interchangeable connector adapters are available in the most popular connector styles.

The multimode source is a dual wavelength 850/1300 source and incorporates an 850 nm LED and a 1300 nm LED, perfect for multimode fiber testing. You can add an optional singlemode 1310/1550 source to any kit as your testing needs evolve. These laser sources are ideal for all singlemode fiber testing. All sources are compatible with the SimpliFiber Pro optical power meter.

The FindFiber™ Remote ID source is a new platform in the Fluke Networks family. When used with the optical power meter, these remote ID sources allow for quick and easy cable-routing identification.

### User-friendly

Although they are effective as separate tools, the SimpliFiber Pro optical power meter and sources are engineered to work together. The automatic wavelength-sensing feature of the meter identifies the source wavelength and sets itself appropriately so you do not have to. This simplifies multi-wavelength tests and saves at each wavelength to prevent costly measurement errors. The compact SimpliFiber Pro optical power meter and sources are durable and rugged. They feature textured, impact-resistant covers and a compact, ergonomic shape for a comfortable and secure grip. Long battery life assures hours of trouble-free operation.

### Verify optical loss and power levels

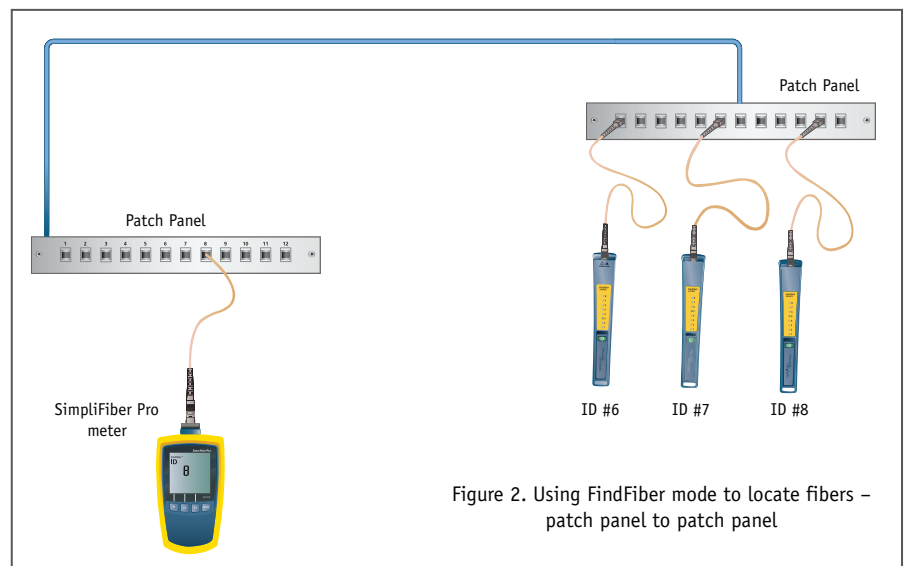
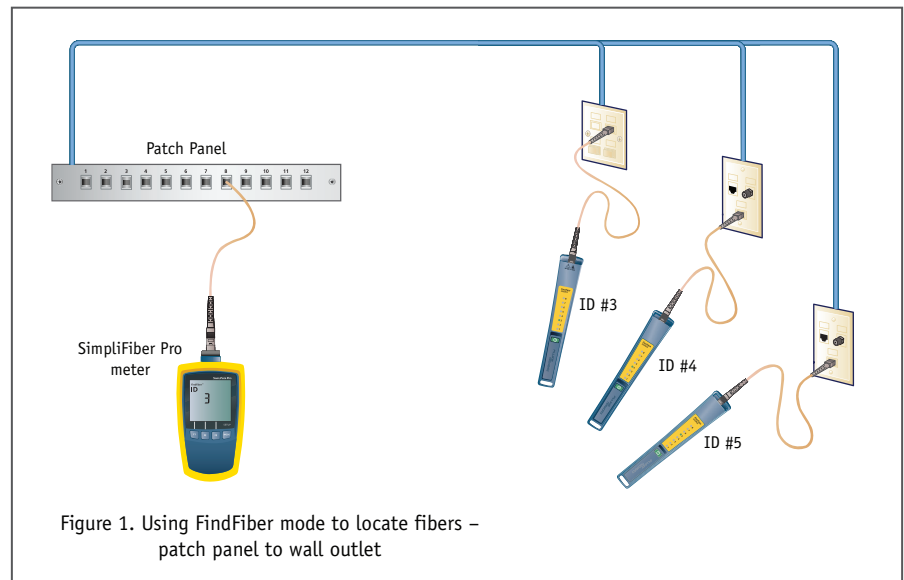
The SimpliFiber Pro optical power meter is calibrated for accuracy at 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm. The meter features the ability to save a reference power level, allowing a direct display of fiber loss. It has an intuitive four-button panel, a large LCD display screen, and a USB port to upload test results to a PC running LinkWare™ Cable Test Management Software. SimpliFiber Pro sources include a dual-wavelength 850/1300 nm source and dual-wavelength 1310/1550 nm source. The FindFiber™ Remote ID sources transmit at 1310 nm.

### Conduct pre-testing with minimal resources

The FindFiber™ remote ID sources allow you to identify the physical location of cabling runs to ensure polarity and the correct location on each fiber drop (Figure 1 and Figure 2). This time-saving feature enables a single technician to quickly perform double-ended testing – ideal for pre-testing a job site before any adds, moves, or changes.

### Ensure smooth, clean fiber connections

Inspect the ends of fiber-optic connectors with Fluke Networks' handheld FiberInspector™ Mini video microscope or FiberViewer™ microscopes. All options ensure your termination is smooth, clean, and ready for optical transmission. The FT500 FiberInspector Mini can be used in any live fiber installation and provides 200x viewing. The FT120 FiberViewer provides 200x magnification for inspecting multimode fiber end-faces while the FT140 FiberViewer offers 400x viewing for singlemode installations. Both FiberViewer microscopes contain a special safety filter to minimize the risk of eye exposure to harmful infrared rays.



## Verify and locate faults

Diagnose and repair simple fiber link problems with Fluke Networks' VisiFault™ Visual Fault Locator (VFL). The laser-powered VisiFault locates fibers, verifies continuity and polarity, and helps find breaks in cables, connectors, and splices. Continuous and flashing modes make for easier identification. Compatible with 2.5 mm and 1.25 mm (with optional adapter) connectors for easy connection.

## Reporting made simple

Manage test results, print professional reports, or export data into spreadsheet formats. SimpliFiber Pro can internally store up to 1000 test results which can then be uploaded to your PC using the included LinkWare™ Cable Test Management Software.

## Features

- Dual-wavelength testing
- Tests multimode and singlemode fiber
- Measures optical power and loss at 850 nm and 1300 nm using the 850/1300 source and meter
- Measures optical power and loss at 1310 nm and 1550 nm using the 1310/1550 source; calibrated wavelengths in the power meter at 1490 nm and 1625 nm also allow for readings from other sources
- Offers quick remote identification of cabling runs with FindFiber Remote IDs
- Conduct pre-testing and qualify cabling runs
- Auto-senses source wavelength
- Saves 1000 test results
- Single port testing for simple network connection
- Ruggedly built for demanding field use
- LinkWare™ Cable Test Management Software documents, reports, and manages all test data

| Feature                           | Description                                                                                                                               | Benefit                                                                                                                                                                                                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dual-wavelength testing</b>    | Simultaneously test and save records from two wavelengths                                                                                 | Cuts testing time in half by eliminating the need to test at each wavelength separately.                                                                                                                                                                              |
| <b>CheckActive™</b>               | Connect to a fiber without any setup and show with a <b>simple icon</b> and an <b>audible tone</b> whether that fiber is active.          | Know for sure if connectors and ports are live. Allows quick visual and audible identification of a live link or port on a switch.                                                                                                                                    |
| <b>FindFiber™ Remote ID</b>       | Identify the physical location of cabling runs to ensure polarity and the correct location on each fiber drop. Encoded source signal 1-8. | Allows for quick and easy cable-routing identification and reduces confusion. <b>Allows double-ended testing with only 1 technician.</b> Ideal for pre-testing a job site before any adds, moves, or changes. Allows for mapping verification and easy documentation. |
| <b>Auto wavelength</b>            | Automatic identification of wavelength being transmitted.                                                                                 | Eliminates time-consuming mistakes by automatically detecting which source wavelength is transmitting. Allows measurements from both wavelengths at to be saved in one record.                                                                                        |
| <b>USB port</b>                   | Data connectivity via USB 2.0.                                                                                                            | Download results faster – no specialty cables required.                                                                                                                                                                                                               |
| <b>Saves 1000 results</b>         | Save and label each test conducted.                                                                                                       | Collects test results from multiple building sites in a day and <b>requires only one download.</b>                                                                                                                                                                    |
| <b>Min/max</b>                    | Allows immediate access to power range highs and lows in a testing session.                                                               | <b>Precisely identifies intermittent power fluctuations.</b> Eliminates unreliable and inaccurate guesswork.                                                                                                                                                          |
| <b>Six calibrated wavelengths</b> | Calibrated to extend from typical enterprise wavelengths to two new popular wavelengths.                                                  | Power meter can be used for broader applications.                                                                                                                                                                                                                     |



FKT1450 Complete Fiber  
Verification Kit



| SimpliFiber Pro Kit Ordering Information         |                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                            | Description                                                                                                                                                                                                                                                                                                                     |
| SFPOWERMETER                                     | SimpliFiber Pro optical power meter                                                                                                                                                                                                                                                                                             |
| SFSINGLEMODESOURCE                               | SimpliFiber Pro singlemode 1310/1500 source                                                                                                                                                                                                                                                                                     |
| FTK1000                                          | Basic Fiber Verification Kit: Includes SimpliFiber Pro optical power meter, 850/1300 multimode source, and carrying case                                                                                                                                                                                                        |
| FTK1300                                          | Multimode Fiber Verification Kit: Includes SimpliFiber Pro optical power meter, 850/1300 multimode source, VisiFault VFL, FT120 FiberViewer, FindFiber Remote ID sources, and carrying case; ST and LC adapter                                                                                                                  |
| FTK1350                                          | Multimode Fiber Verification Kit with FT500 FiberInspector Mini: Includes SimpliFiber Pro optical power meter, 850/1300 multimode source, VisiFault VFL, FT500 FiberInspector Mini, FindFiber Remote ID sources, and carrying case; ST and LC adapter                                                                           |
| FTK1450                                          | Complete Fiber Verification Kit with FT500 FiberInspector Mini: Includes SimpliFiber Pro optical power meter, 850/1300 multimode source, 1310/1550 singlemode source, VisiFault VFL, FT500 FiberInspector Mini, two (2) FindFiber Remote ID sources, and carrying case; ST and LC adapter, NFC-Kit-Box fiber optic cleaning kit |
| FTK2000                                          | Singlemode Fiber Verification Kit: Includes SimpliFiber Pro optical power meter, 1310/1550 singlemode source, and carrying case                                                                                                                                                                                                 |
| FindFiber                                        | One (1) FindFiber Remote ID source                                                                                                                                                                                                                                                                                              |
| FindFiber-6                                      | Set of six (6) FindFiber Remote ID sources                                                                                                                                                                                                                                                                                      |
| GLD-FTK                                          | Gold Support package for SimpliFiber Pro                                                                                                                                                                                                                                                                                        |
| SimpliFiber Pro Accessories Ordering Information |                                                                                                                                                                                                                                                                                                                                 |
| Model                                            | Description                                                                                                                                                                                                                                                                                                                     |
| NFK1-SMPLX-SC                                    | 62.5 uM simplex reference cord set (SC/SC x 2); special patented damage-resistant end-faces                                                                                                                                                                                                                                     |
| NFK1-SMPLX-LC                                    | 62.5 uM simplex reference cord set (SC/LC, LC/LC); special patented damage-resistant end-faces                                                                                                                                                                                                                                  |
| NFK1-SMPLX-ST                                    | 62.5 uM simplex reference cord set (SC/ST, ST/ST); special patented damage-resistant end-faces                                                                                                                                                                                                                                  |
| NFK2-SMPLX-SC                                    | 50 uM simplex reference cord set (SC/SC x 2); special patented damage-resistant end-faces                                                                                                                                                                                                                                       |
| NFK2-SMPLX-LC                                    | 50 uM simplex reference cord set (SC/LC, LC/LC); special patented damage-resistant end-faces                                                                                                                                                                                                                                    |
| NFK2-SMPLX-ST                                    | 50 uM simplex reference cord set (SC/ST, ST/ST); special patented damage-resistant end-faces                                                                                                                                                                                                                                    |
| NFK3-SMPLX-SC                                    | SM simplex reference cord set (SC/SC x 2); special patented damage-resistant end-faces                                                                                                                                                                                                                                          |
| NFK3-SMPLX-LC                                    | SM simplex reference cord set (SC/LC, LC/LC); special patented damage-resistant end-faces                                                                                                                                                                                                                                       |
| NFK3-SMPLX-ST                                    | SM simplex reference cord set (SC/ST, ST/ST); special patented damage-resistant end-faces                                                                                                                                                                                                                                       |
| NFA-SC-SINGLE                                    | SC interchangeable adapter                                                                                                                                                                                                                                                                                                      |
| NFA-LC-SINGLE                                    | LC interchangeable adapter                                                                                                                                                                                                                                                                                                      |
| NFA-ST-SINGLE                                    | ST interchangeable adapter                                                                                                                                                                                                                                                                                                      |

| General Specifications                  |                                                                                                                                                                                                                                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range                       | Operating: -10 °C to 50 °C<br>Storage: -20 °C to 50 °C                                                                                                                                                                                           |
| Humidity range                          | 95% (10 °C to 35 °C) non-condensing;<br>75% (35 °C to 40 °C) non-condensing;<br>uncontrolled <10 °C                                                                                                                                              |
| Certifications                          | CE, CSA, N10140, Class 1 laser-safe                                                                                                                                                                                                              |
| Dimensions                              | Power meter: 6.4 in x 3.2 in x 1.5 in<br>(16.5 cm x 8.0 cm x 3.9 cm)<br>MM/SM sources: 5.6 in x 3.2 in x 1.6 in<br>(14.2 cm x 8.1 cm x 4.1 cm)                                                                                                   |
| Weight                                  | Power meter: 11.5 oz (325 g)<br>MM/SM sources: 9.8 oz (278 g)                                                                                                                                                                                    |
| Optical Sources                         |                                                                                                                                                                                                                                                  |
| Optical output connector                | Fixed SC                                                                                                                                                                                                                                         |
| Emitter type                            | 850/1300: LED<br>1310/1550: FP Laser<br>FindFiber: Laser                                                                                                                                                                                         |
| Emitter wavelengths                     | 850, 1300, 1310, 1490, 1550, 1625                                                                                                                                                                                                                |
| Power output (minimum)                  | MM: ≥ -20 dBm<br>SM: ≥ 8 dBm minimum;<br>-7 dBm nominal                                                                                                                                                                                          |
| Power output stability (8 hours)        | MM: +/- 0.1 dB over 8 hours<br>SM: +/- 0.25 dB over 8 hours                                                                                                                                                                                      |
| MM battery life (2 x AA IEC LR6)        | 40 hours typical                                                                                                                                                                                                                                 |
| SM battery life (2 x AA IEC LR6)        | 30 hours typical                                                                                                                                                                                                                                 |
| FindFiber battery life (2 x AA IEC LR6) | 80 hours typical                                                                                                                                                                                                                                 |
| Optical Power Meter                     |                                                                                                                                                                                                                                                  |
| Power measurement accuracy              | +/-0.25 dB                                                                                                                                                                                                                                       |
| Optical connector                       | Removable adapter; SC adapter standard;<br>Optional adapters include LC, ST                                                                                                                                                                      |
| Detector type                           | InGaAs                                                                                                                                                                                                                                           |
| Calibrated wavelengths                  | 850, 1300, 1310, 1490, 1550, 1625                                                                                                                                                                                                                |
| Power measurement range                 | 850: 10 to -52 dBm<br>1300, 1310, 1490, 1550, 1625: 10 to -60 dBm                                                                                                                                                                                |
| Power measurement linearity             | 850 nm: +/- 0.2 dB; +/- 0.2 dB for power from 0 dBm to -45 dBm, +/- 0.25 dB for power < -45 dBm; 1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 nm: +/- 0.1 dB; +/- 0.1 dB for power from 0 dBm to -55 dBm, +/- 0.2 dB for power > 0 dBm and < -55 dBm |
| Resolution                              | 0.01 dB                                                                                                                                                                                                                                          |
| Battery life                            | >50 hours typical                                                                                                                                                                                                                                |
| Memory                                  | 1000 loss or power measurements                                                                                                                                                                                                                  |
| Serial communication physical interface | USB                                                                                                                                                                                                                                              |

#### NETWORK SUPERVISION

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Fluke Networks operates in more than 50 countries worldwide. To find your local office contact details, go to [www.flukenetworks.com/contact](http://www.flukenetworks.com/contact).

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